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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/578,869	05/11/2006	Honda Shoji	070759-0044	3265	
20277	7590 06/29/2007		EXAMINER		
MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W.			KING, JOSHUA		
WASHINGTON, DC 20005-3096		• ,	ART UNIT	PAPER NUMBER	
	•		2828		
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•		•	06/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extractions of time may be available under the protrieur of 37 CFR 1.13(6), in no event, however, may a reply to be limby filled  If INO proofs for cash is specified above, the maximum statutory period will apply and will expire SIX (8) MONTHS from the maining date of this communication.  Failure for reply in specified above, the maximum statutory period will apply and will expire SIX (8) MONTHS from the maining date of this communication, even of timely filled. The maximum statutory period will apply and will expire SIX (8) MONTHS from the maining date of this communication, even of timely filled, may reduce any sentent place than adjustment of period by the Office later than those months after the mailing date of this communication, even of timely filled, may reduce any sentent place than 30 months after the mailing date of this communication, even of timely filled, may reduce any sentent place that the sentence of the sentence and sentenc		Арр	lication No.	Applicant(s)					
Joshua J. King   2828	Office Action Summary		78,869	SHOJI, HONDA					
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Art Unit: 2828

#### **DETAILED ACTION**

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on May 11, 2006 was filed on the mailing date of the instant application on May 11, 2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1 and 3-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Hosokawa et al. (U.S. Pre-Grant Publication 2004/0105472).
- 5. Hosokawa et al. discloses:
  - With respect to claim 1, a base portion having a horizontal top surface (Fig. 3 element 1); a heat sink portion that has a vertical element mount surface and is located above the top surface of the base portion (Fig. 3 element 17); a

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semiconductor laser element that is fixed to the element mount surface (Fig. 3 element 3); and a depression that is formed in the top surface of the base portion located immediately below the semiconductor laser element so as to receive part of the semiconductor laser element disposed therein (Fig. 3 element 5), wherein the heat sink portion is fixed to the base portion in such a way that the element mount surface is located inward of an inner side surface of the depression (Fig. 3 elements 5 and 17).

- With respect to claim 2, wherein the depression is formed within an area of a circle including, on a circumference thereof, a plurality of lead pins that feed a voltage to the semiconductor laser element ([0017]).
- With respect to claim 3, wherein the semiconductor laser element is fixed to the heat sink portion via a submount, part of which is disposed in the depression (Fig. 3 element 2).
- With respect to claim 4, wherein a length of the semiconductor laser element is longer than a height of the heat sink portion (Fig. 1 elements h1 and L). It should be noted that the applicant has admitted in the disclosure that the lengths of the elements is a matter of design choice (see [0054] of 2007/0086494 which is the Pre-Grant Publication of the instant application).
- With respect to claim 5, wherein the base portion and the heat sink portion are
  formed as a single member (Fig. 1 elements 1 and 7). It should be stated that
  the courts have found that making two elements integral only requires ordinary
  skill in the art.

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- With respect to claim 6, wherein the depression has a rough bottom surface.

  While not explicitly stated all surfaces have some roughness, so the recitation is anticipated through inherency.
- With respect to claim 7, wherein the depression has an inclined bottom surface (Fig. 3 element 5).

### **Conclusion**

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hamasaki et al. (U.S. Patent Number 6,449,296) discloses the effects of a roughened surface in the recessed portion. Simoun-Ou et al. (U.S. Pre-Grant Publication 2005/0105572) discloses a laser device with a recessed base. Tanaka et al. (U.S. Patent Number 5,089,861) discloses a recessed portion base. Shimonaka (U.S. Pre-Grant Publication 2002/0154667) discloses the effects of a roughened surface to laser light. Ichikawa et al. (U.S. Pre-Grant Publications 2001/0026991 and 2003/0165167) which disclose a recessed base of a semiconductor device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua J. King whose telephone number is 571-270-1441. The examiner can normally be reached on Mon.-Thurs. 10:00-7:30 and every other Fri. 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Sun Harvey can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JJK 06/20/2007

MINSUN OH HARVEY PRIMARY EXAMINER